Map of parcels at 39 kft on 04071017 influenced by convection 0.0 to 2.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04071017 2.5 Days Since Convection 1.5 1.0 0.5 0.0 NASA/ARC PSL Last Image Used is 0407101645 -**T**rajectories

Map of parcels at 39 kft on 04071017 influenced by convection 2.5 to 5.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04071017 4.5 Days Since Convection 4.0 3.5 3.0 2.5 NASA/ARC PSL Last Image Used is 0407101645 1320 Trajectories

Map of parcels at 39 kft on 04071017 influenced by convection 5.0 to 7.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 04071017 7.0 Days Since Convection 6.5 6.0 5.5 5.0 NASA/ARC Last Image Used is 0407101645 **PSL** 1320 Trajectories

